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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/605,402	09/29/2003	Yueh-Chuan Lee	11141-US-PA	2401
31561 75	590 03/09/2006		EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100			GARCIA, JOANNIE A	
	LT ROAD, SECTION 2		ART UNIT	PAPER NUMBER
TAIPEI, 100			2823	
TAIWAN			DATE MAILED: 03/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/605,402	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Joannie A. García	2823				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I.  lety filed  the mailing date of this communication.  O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 De	ecember 2005.					
	action is non-final.					
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-4 and 8-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-4 and 11-22</u> is/are allowed.						
6)⊠ Claim(s) <u>8-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	·					
Paper No(s)/Mail Date	6)					

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Jhabvala (U.S. Patent 4,119,996).

The rejection is maintained as stated in the Office Action mailed 09-20-05, and as stated below.

Jhabvala discloses a substrate 11 having a shallow trench 31 therein, the shallow trench having a bottom (Figure 9, and Column 7, lines 22-35), an isolation layer 35 filling up the shallow trench (Figure 10, and Column 7, lines 49-53), and a P-type doped region 15 as a channel stop layer disposed directly under a bottom of the shallow trench (Figure 10, and Column 7, lines 49-53), wherein the doped region does not extend to a sidewall of the shallow trench (Figures 9-10), and wherein a conductivity type of the doped region is different from a conductivity type of an active device 16 disposed on an active area (Figure 7).

Applicant argues that Jhabvala does not teach that the isolation layer fills up the trench. However, Jhabvala discloses shallow trench 31 filled up with a thick oxide isolation layer 35, as shown in Figure 10, and in Column 7, lines 49-53, and therefore achieving an isolation layer filled up in a shallow trench.

Claims 1-4, and 11-22, are allowed.

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joannie García whose telephone number is (571) 272-1861. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> George Fourson Primary Examiner

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March 2, 2006

**G**Fourson

**Primary Examiner**